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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,396	11/06/2006	Alexander Golitschek Edler Von Elbwart	L7725.06110	1951
⁵²⁹⁸⁹ Dickinson Wrig	7590 09/08/201 ght PLLC	EXAMINER		
James E. Ledbe	etter, Esq.	CHASE, SHELLY A		
International Square 1875 Eye Street, N.W., Suite 1200			ART UNIT	PAPER NUMBER
Washington, DC 20006			2112	
			MAIL DATE	DELIVERY MODE
			09/08/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/580,396	GOLITSCHEK EDLER VON			
			ELBWART ET AL.			
	•	Examiner	Art Unit			
	The MAILING DATE of this communication app	Shelly A. Chase	2112			
Period fo		ours on the sover sheet with the s	on coponacion dances			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is specified above, the maximum statutory period of the reply is specified above, the maximum statutory period of the reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 24 May 2006.					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	4)⊠ Claim(s) <u>64</u> is/are pending in the application.					
	4a) Of the above claim(s) <u>1-32</u> is/are withdrawn from consideration.					
5)🛛	5)⊠ Claim(s) <u>33-49,51,52,63 and 64</u> is/are allowed.					
6)🛛	☑ Claim(s) <u>50 and 53-62</u> is/are rejected.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)🖂	The specification is objected to by the Examine	r.				
· —	10)⊠ The drawing(s) filed on <u>24 May 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
,—	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
12)🛛	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	⊢(d) or (f).			
- /-	1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau	u (PCT Rule 17.2(a)).				
* 5	See the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P				
Paper No(s)/Mail Date <u>5-24-2006 & 8-24-2006</u> . 6) Other:						

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DETAILED ACTION

1. Claims 1 to 32 are presented for examination. the preliminary amendment filed 5-24-2006 canceled claims 1 to 32 and add new claims 33 to 64.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119, which papers have been placed of record in the file.

Information Disclosure Statement

3. The references listed in the information disclosure statement submitted on 5-24-2006 and 8-24-2006 have been considered by the examiner (see attached PTO-1449).

Specification

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Objections

5. Claims 33 to 34, 51 to 52 and 63 to 64 are objected to because of the following informalities: please change "the used code" to --a used code--.

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Claims 34, 51 to 52 and 64 are objected to because of the following informalities: please change "the initializing the message matrix element" to --initializing a message matrix element--.

Appropriate correction is required.

6. Claims 53 to 62 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims (53, 55, 57 and 59) seems to be independent claims including the decoders of claims 51 and 52 rather than depending on the decoders of claims 51 and 52.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claim 50 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 50, recites the limitation "the error correction code" on line 2, there is insufficient antecedent basis for this limitation in the claim.

Allowable Subject Matter

- 9. Claims 33 to 49, 51, 52, 63 and 64 are allowed.
- 10. The following is a statement of reasons for the indication of allowable subject matter: the prior art made of record teaches numerous methodologies of decoding a

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codeword based on a parity check matrix. For instance, Kim (USP 7246304) on such example of the prior art teaches a decoding architecture for low density parity check (LDPC) codes comprising initializing the parity check matrix with a log likelihood ratio. However, the prior art made of record taken alone or in combination fails to teach or fairly suggest or render obvious the novel element of the instant invention of a method and a decoder for decoding at least one codeword, the decoding being performed as message passing on a graph representation of used code, wherein the graph representation is based on a parity check matrix, the method comprising: for each non-zero entry in the parity check matrix, initializing message matrix elements of a first message matrix with data obtained form a demodulator."

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelly A. Chase whose telephone number is 571-272-3816. The examiner can normally be reached on Mon-Fri from 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman can be reached on 571-272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shelly A Chase/ Primary Examiner, Art Unit 2112